

SHEYNDLIN, A.Ye., doktor tekhn. nauk; SYCHEV, V.V., kand. tekhn. nauk;  
MUNIR MUKHAMMED KHILAL', kand. tekhn. nauk; GORBUNOVA, N.I., inzh.

Experimental study of the enthalpy of water and steam at  
temperatures up to 390° C and pressures up to 500 kg./cm<sup>2</sup>.  
Teploenergetika 10 no.9:76-80 S '63. (MIRA 16:10)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur pri  
Moskovskom energeticheskom institute.  
(Water--Thermal properties)

SHEYNDLIN, A.Ye., doktor tekhn. nauk, prof.; GORBUNOVA, N.I., inzh.

Experimental study of the enthalpy of water and water  
vapor at temperatures up to 460° C and pressures up to 490 bar.  
Teploenergetika 11 no.5:86-88 My'64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur  
pri Moskovskom ordena Lenina energeticheskome institute.

SHEYDLIN, A.Ye.; GORBUNOVA, N.I.

Experimental study of the enthalpy of heavy water in the super-critical region of the parameters of state. Teplofiz. vys. temp. 2 no.3:484-487 My-Je '64. (MIRA 17:8)

1. Nauchno-issledovatel'skiy institut vysokikh temperatur.
2. Glavnyy redaktor zhurnala "Teplofizika vysokikh temperatur" (for Sheydlin).

**"APPROVED FOR RELEASE: 06/13/2000**

**CIA-RDP86-00513R000516120005-1**

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SYCHEV, V.V., kand. tekhn. nauk; SIROTA, A.M., kand. tekhn. nauk;  
GORBUNOVA, N.I., kand. tekhn. nauk

Compilation of international reference tables on the thermodynamic  
properties of gases of technical importance. Vest. AN SSSR  
35 no.9:90 '65. (MIRA 18:9)

KORNDORF, Sergey Ferdinandovich; TERESHIN, German : Mikheylovich;  
GORBUNOVA, N.K., red.; FRIDKIN, A.M., tekhn. red.

[Problems and exercises on radio measurements] Sbornik zadach  
i uprazhnenii po radiotekhnicheskim izmereniam. Moskva,  
Gosenergoizdat, 1962. 159 p. (MIRA 15:9)  
(Radio measurements)

GORBUNOVA, N.N.

Gorbunova, N.N. Vrediteli Sladkikh Lyupinov V BSSR. Izvestiya Akad.

Nauk BSSR, 1949, No.3, S. 101-03.

SO: Letopis No. 30, 1949

GORBUNOVA, N.N.

Lupine weevil. Priroda 42 no.11:105-106 N '53.

(MLRA 6:11)

1. Institut sotsialisticheskogo sel'skogo khozyaystva Akademii nauk Belorusskoy SSR.

(Weevils)

GORBUNOVA, N. N.

Dissertation: "Pests of Lupines and Measures for Exterminating Them." Cand Biol Sci, Belorussian State U imeni V. I. Lenin, 27 Apr 54. (Sovetskaya Belorussiya--Minsk, 18 Apr 54)

SO: SUM 243, 19 Oct 1954

GORBUNOVA, N.N., kandidat biologicheskikh nauk.

Soil fauna of peat-bog soils and its role in soil formation.  
Trudy Inst.mel., vod.i bol.khoz.AN BSSR 7:206-233 '56.

(Soil fauna) (Peat soils)

(MLRA 10:5)

GORBUNOVA, N.N.

USSR/General and Special Zoology, Insects. Injurious P  
Insects and Ticks. Pests of Cereal Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49584

Author : Gorbunova N.N., Turishchova N.A.  
Inst : AS BSSR  
Title : Corn Pests on Peaty Marsh Soils.

Orig Pub : V sb.: Kukuruz v BSSR. Minsk, AN BSSR, 1957,  
363-371

Abstract : The roots and near-root parts of corn are damaged by crickets, wireworms (12 species), pseudo-wireworms (3 species), the larvae of the big and the small stem fleas, the larvae of 11 Diptera species (the Swedish and the Sprout flies, Tipulidae and others), the larvae of the stem borer, winter owl moth and Hadona schrank; the leaf-beetles (Chrysomelidae, g. Lema) damage the leaves and the stems; the corn borer moth (Pyrausta nubilalis) and the Phytonotra gamma L. moth damage the leaves,

Card : 1/2

USSR/General and Special Zoology. Insects. Injurious P  
Insects and Ticks. Pests of Cereal Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49584

stems, flowers and early cobs; thrips (two species) damage the flowers. Corn plantings on the layer of perennial herbs are greatly damaged by wireworms, but are little damaged after the herbs are plowed and in the first year of acclimatization after being dried. Spraying (a glass per nest) with a 4-5% suspension of 12% hexachlorocyclohexane at the discovery of the damages during the growth of the corn brings better results in dry and warm weather. Dusting the seeds with 0.1 kg/c Mercuran (better), or with 0.15 kg/c of Granozan combined with 1 kg/c of 12% HCCH, or the introduction of 12% HCCH in 3-6 kg/ha into the holes with 1 t/ha of crushed peat are effective. -- A.P. Adrianov

Card : 2/2

GORBUNOVA, N. N.

Fishes

Effect of fixation upon the size of roe in *Theragra chalcogramma* (Pallas)., Dokl. AN SSSR, 82, no. 1, 1952.

Institut Okeanologii Akademii Nauk SSSR.  
rdc. 14 Sept. 1951

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

~~GORBUNOVA, N. N.~~

Propagation and development of the Alaska pollack, *Theragra chalcogramma* (Pallas). Trudy Inst.okean. 11:132-195 '54.  
(Godfish) (MLRA 8:2)

RASS, T.S.; OSTROUMOVA-PERTSEVA, T.A.; GORBUNOVA, N.M.; KULIKOVA, Ye.B.

Propagation areas of some spring-spawning fishes of Far Eastern seas.  
Trudy probl.i tem.sov. no.6:136-137 '56. (MLBA 9:11)

1. Institut okeanologii AN SSSR.  
(Soviet Far East--Fishes)

GORBUNOVA, N.N.

Reproducing and development of sprat (*Sprattus sprattus* (Risso))  
in the Black Sea. Trudy SBS 10:108-125 '58. (MIRA 12:9)  
(Black Sea--Sprats)  
(Embryology--Fishes)

GORBUNOVA, N.N.

Embryonic and larval development of the wrasses *Crenilabrus*  
*tinca* (L.) and *C. quinque maculatus* Bloch. Trudy SBS 11:174-181  
'59. (MIRA 13:5)  
(Black Sea--Wrasse) (Embryology--Fishes)

GOEBUNOVA, N.N., kand.biologicheskikh nauk

Concern for progeny among fishes. Priroda no.6:96-97  
Je '60. (MIRA 13:6)

1. Institut okeanologii Akademii nauk SSSR, Moskva.  
(Fishes)



RASS, T.S.; ~~GORBUNOVA, N.N.~~ PERTSEVA-OSTROUMOVA, T.A.

Investigation of the reproduction and development of fishes in the  
Far Eastern seas of the U.S.S.R. Vop. skol. 5:184-186 '62.  
(MIRA 16:6)

1. Institut okeanologii AN SSSR, Moskva.  
(Pacific Ocean—Fishes)  
(Reproduction)

GORBUNOVA, N.N.

Reproduction and development of fishes of the family Hexagrammidae. Trudy Inst. okean. 59:118-182 '62. (MIRA 16:11)

1. Institut okeanologii AN SSSR.

GORBUNOVA, N.N.; PARIN, N.V.

Development of the flying fish *Chelopogon (Ptenichthys) unicolor*  
(Cuv. et Val.) (Pisces, Exocoetidae). Trudy Inst. okean 62:62-67  
'63. (MIRA 17:2)

GORBUNOVA, N.N.

Experimental study on the possibility of the survival of eggs and the young of Baltic cod (*Gadus morhua callarias* L.) in the Black Sea.  
Vop. ikht. 3 no.2:411-413 '63. (MIRA 16:7)

1. Institut okeanologii AN SSSR, Moskva.  
(Black Sea--Codfish) (Black Sea--Fish introduction)

PARIN, N.V.; GORBUNOVA, N.N.

Reproduction and development of some synentognathous  
fishes (Beloniformes, Pisces) of the Indian Ocean; based  
on collections of the E/S "Vityaz'." Trudy Inst. okean. 73:  
224-234 '64. (MIRA 17:6)

GORBUNOVA, N.N.

Reproduction and development of sculpins of the subfamily  
Hemilepidotinae (Cottidae, Pisces. Trudy Inst. okean. 73:  
235-251 '64. (MIRA 17:6)

GORBUNOVA, N.N.

Occurrence of the larvae of scombroid fishes (Pisces, Scombroidei) in the eastern part of the Indian Ocean. Trudy Inst. okean. 80:32-35 '65.

Time and conditions of spawning of scombroid fishes (Pisces, Scombroidei). Ibid.:36-61

Spawning of the scombroid fishes (Pisces, Scombroidei) in the Gulf of Tonkin of the South China Sea. Ibid.:167-176  
(MIRA 18:10)

GORBUNOVA, Natal'ya Nikolayevna; PTASHNIKOVA, Irina Vasil'yevna; SHAVERDOVA, A.I., red.; DOTSENKO, A.A., tekhn. red.

[Birth of a dream] Rozhdenie mechty. Moskva, Gos. izd-vo "Fizkul'tura i sport," 1961. 100 p. (MIRA 14:7)  
(Soviet Central Asia--Description and travel)

Gorbuova, N. P.

Grad Biology Sci

Dissertation: "Observations in the Field of the Cytology and Development History  
of Certain Blue-Green Algae."

27 May 49

Moscow Order of Lenin State U imeni M. V. Lomonosov.

SO Vecheryaya Moskva  
Sum 71

GORBUNOVA, N.P.

Techniques of microscopy of mycorrhiza in various tree varieties.  
Mikrobiologiya 21, 561-5 '52. (MLRA 5:9)  
(CA 47 no.14:7042 '53)

1. Lomonosov State Univ., Moscow.

*Biologo-Soil Inst.*

GORBUNOVA, N. P.

PETROVSKIY, I. G.; OPARIN, A. I.; MEYER, K. I.; RUBIN, B. A.; SHAPOSHNIKOV, V. N.;  
STANKOV, S. S.; BELOZERSKIY, A. N.; KRECHETOVICH, L. M.; KOMARNITSKIY, N. A.;  
VORONIN, L. G.; ZENKEVICH, L. A.; MATVEYEV, B. S.; KUDRYASHOV, B. A.; YUDINTSEV, S. D.  
KLYUSHNIKOVA, Ye. S.; TSESHINSKAYA, N. I.; GORBUNOVA, N. P.; SIZOVA, T. P.

Lev Ivanovich Kursanov; obituary; nekrolog. Vest. Mosk. un. 10 no. 2:  
183-184 F 1955.

(MLRA 8:5)

(Kursanov, Lev Ivanovich, 1876-1954)

GORBUNOVA, N.P.

Lev Ivanovich Kursanov; obituary. Biul. MOIP. Otd. biol. 60 no.2:117-  
120 Mr-Apr '55. (MLRA 8:7)  
(Kursanov, Lev Ivanovich, 1877-1954)

GORBUNOVA, N.P. (Moskva)

Mutual relationship of fungi and higher plants in mycorrhiza. Usp.  
sovr.biol. 42 no.2;160-174 S-O '56. (MIRA 9:11)  
(MYCORRHIZA)

Горбунова, Н. П.

GORBUNOVA, N.P.

Interrelationships between fungi and higher plants in endotrophic mycorrhizas of the vesicular type. *Biul. Glav. bot. sada no. 29:38-48 '57.* (MIRA 11:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(Mycorrhiza)

GORBUNOVA, N.P.

Cytology and systematic position of *Spirulina major* Kütz.  
Bot.zhur. 43 no.11:1589-1593 N '58. (MIRA 11:11)

1. Moskovskiy gosudarstvennyy universitete im. M.V. Lomonosova.  
(Algae)

GORBUNOVA, N.P.

Mycorhiza of *Encephalartos Hildebrandtii* Arb. et Bauche and some conclusions with regard to the interrelationships of the endophytic fungus and the higher plant in endotrophic mycorrhizas [with summary in English] *Biul. MOIP. Otd. biol.* 63 no.2:123-134 Mr-Apr '58  
(MIRA 11:7)

(MYCORRIZA)  
(CYCADOPHYTA)

SKABICHEVSKIY, Aleksandr Pavlovich; GORBUNOVA, N.P., red.; GEORGIYEVA,  
G.I., tekhn.red.

[Fresh-water plankton diatoms of the U.S.S.R.; taxonomy, ecology,  
and distribution] Planktonnye diatomovye vodorosli presnykh vod  
SSSR; sistematika, ekologiya i rasprostranenie. Moskva, Izd-vo  
Mosk.univ., 1960. 347 p. (Materialy k poznaniyu fauny i flory SSSR,  
izdavaemye Moskovskim obshchestvom ispytatelei prirody. Novaya  
seriya, Otdel botanicheskii, no.11 [19]). (MIRA 13:9)  
(Diatoms)

GORBUNOVA, N.P.

Gas vacuoles in hormogonial cells of *Amarphionostoc punctiforme*  
(Kutz.) Klenk. Bot. zhur. 45 no.10:1546-1548 O '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(Algae) (Plants, Gases in)

GORBUNOVA, N.P.

Cytology and systematic position of *Spirulina albida* Kolkwitz.  
Nauch. dokl. vys. shkoly; biol. nauki no.3:109-111 '61.

(MIRA 14:7)

1. Rekomendovana kafedroy nizshikh rasteniy Moskovskogo gosudar-  
stvennogo universiteta im. M.V.Lomonosova.  
(ALGAE)

GORBUNOVA, N.P.

Germination of spores in *Stratonostoc linckia* f. *carneum* (Ag.)  
Elenk. Bot. zhur. 47 no.5:682-685 My '62. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet.  
(Algae) (Spores (Botany))

GORBUNOVA, N.P.

Effect of environmental factors on the reproduction of  
Amorphanostoc punctiforme (Kutz.) Elenk. in culture. Biul.  
MOIP. Otd. biol. 68 no.6:88-102 N-D '63. (MIRA 17:1)

GORBUNOVA, N.V.; ATCHABAROV, B.A.

Changes in the larynx in lead poisoning. Trudy Inst.kraev.pat.  
AN Kazakh.SSR 10:167-179 '62. (MIRA 16:5)  
(LEAD POISONING) (LARYNX--DISEASES)

ATCHABAROV, B.A.; KLYUCHNIKOVA, Ya.A.; GORBUNOVA, N.V.

State of the olfactory analyzer in lead intoxication. Trudy  
Inst.kraev. pat.AN Kazakh. SSR 9:178-188'61. (MIRA 16:7)  
(LEAD POISONING) (OLFACTORY NERVE)

NIKITINA, Ye.V.; AYDAROVA, R.A.; DZHANAYEVA, V.M.; UBUKEYEVA, A.U.;  
ARBAYEVA, Z.S.; SUDNITSYNA, I.G.; SULTANOVA, R.M.; GORBUNOVA,  
N.V.; TKACHENKO, V.I.; FILATOVA, N.S.; CHERNEVA, O.V.;  
VVEDENSKIY, A.I., nauchn. red.; VYKHODTSEV, I.V., otv. red.

[Flora of the Kirghiz S.S.R.; a guide to the plants of the  
Kirghiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii  
Kirgizskoi SSR. Frunze, Ilim. Vol.11. 1965. 606 p.  
(MIRA 18:11)

GOEBUNOVA, O.G.

Zoning of the Murgab Delta for hydrogeological and land improvement  
purposes. Izv. AN Turk. SSR. no.1:53-57 '59. (MIRA.12:5)

1. Institut geologii AN Turkmenskoy SSR.  
(Murgab Delta)

L 24893-55 EWT(1)/EPA(a)-2/EWT(m)/T/EWP(t)/REC(b)-2/EWP(b) PL-10 7/8/61

ADP

AUTHOR: [unclear]

TITLE: [unclear]

ABSTRACT: [unclear]

KEYWORDS: [unclear]

CLASSIFICATION: [unclear]

Card 1/2

L 24893-65

ACCESSION NR: AP5005059

dielectric. An intense luminescence was observed when a reverse field of 1000 and higher was applied to the charged layer. A second application of the field with the same polarity but with a higher intensity resulted in a further increase in the intensity of the luminescence. The luminescence was observed in the form of a diffuse glow.

The luminescence was observed in the form of a diffuse glow. The intensity of the luminescence was observed to increase with the intensity of the applied field. The luminescence was observed in the form of a diffuse glow.

... (faint text) ...

ASSOCIATION: ...

SUBJECT: ...

ENCL: 00

NO REF: ...

OTHER: 000

Card 2/2

TROFIMOVA, N.D.; GORBUNOVA, O.K.

Application of Endo's medium for detection of enteric bacteria on hands in water. Gig. sanit., Moskva no.6:39-40 June 1952. (GLML 23:2)

1. Of the Crimean Institute of Epidemiology and Microbiology.

BEKOV, V.V., kand.fis.-matem.nauk; GORODNIKOVA, G.K.

Using the principle of plotting constant-pressure charts for the  
numerical analysis of aerological data. Meteor. i gidrol. no.5:14-  
22 My '65. (MIRA 18:4)

1. Mirovoy meteorologicheskij tsentr.

GORBUNOVA, O.M.

Helminth eggs as an indicator of sanitary conditions in sand  
playgrounds. Gig. i san. no.7:49 J1 '54. (MLRA 7:8)

1. Iz laboratorii Moskovskoy gorodskoy sanitarno-epidemiologicheskoy  
stantsii.

(PLAYGROUNDS, SAND) (WORMS, INTESTINAL AND PARASITIC)

BEL'YAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIE, I.N.;  
 GUREVICH, G.M.; GOEBUHOVA, P.I.; KOHNOV, A.S.; KALANTAROVA, M.V.;  
 KASHIRSKIY, A.Ya.; KAZANCHIYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-  
 CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;  
 SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENEKO, K.N.;  
 EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-  
 CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,  
 D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,  
 A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,  
 V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;  
 CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;  
 OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,  
 I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;  
 VOLYNSKIY, S.A.; KLYUEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;  
 BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINSKIY, M.F.; MAL'TSEV, V.I.;  
 VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;  
 KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaya Astrakhan'. Astrakhan',  
 Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon.  
 (Astrakhan Province--Economic conditions)

NIKOL'SKIY, B.P.; PAL'CHEVSKIY, V.V.; GORBUNOVA, R.G.

Study of the formation of acetate complexes in a ferric-ferrous  
system by means of the oxidation potential. Zhur. neorg.  
khim. 6 no.3:606-612 M<sub>r</sub> '61. (MIRA 14:3)  
(Complex compounds) (Electromotive force)  
(Iron compounds)

MERKULOV, M.I.; GORBUNOVA, R.I.

Chair finishing with colored varnish. Der.prom. 10 no.12:19-  
20 D '61. (MIRA 14:12)

1. Moskovskaya mebel'naya fabrika No.5.  
(Chairs)  
(Varnish and varnishing)

MERKULOV, M. I.; GORBUNOVA, H. I.

Varnishing bent chairs in a high-frequency electric field.  
Der. prom. 12 no.2:22-24 F '63. (MIRA 16:4)

1. Moskovskaya mebel'naya fabrika No. 5.

(Wood finishing) (Chairs)

GORBUNOVA, R.I.

Experience in the use of the electrostatic spray painting method  
for varnishing bent chairs in the Moscow Furniture Factory No.5.  
Lakokras. mat. i ikh prim. no.4:73-74 '63. (MIRA 16:10)

GORBUNOVA, R. L.

GORFUNOVA, R. L. - "Characteristics of a "Dangling" Hip Joint of  
Gundhot Origin and Instrument Treatment of This Deformity."  
Sub 5 Feb 52, Central Inst for the Advanced Training of Physicians.  
(Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

ANTONOV, A.I.; GORBUNOVA, R.L.

Pneumatic apparatus for treating bones and taking skin transplants  
in surgical operations. Trudy NIIEKHAI no.5:236-238 '61.  
(MIRA 15:8)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii  
Ministerstva zdavookhraneniya SSSR.  
(SURGICAL INSTRUMENTS AND APPARATUS)

~~GORBUNOVA, R.L., kand. med. nauk (Moskva A-30, Sushchevskaya ul. d.18, kv.2); BOYARSKAYA, V.P., kand. med. nauk; YURISOVA, L.M., kand. med. nauk~~

Condition of the feet and shoe supply of school children of the primary and intermediate classes. Ortop. travm. i protez. 24 no.5:42-46 My '63. (MIRA 17:9)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii (dir.-prof. M.V. Volkov).

KAZ'MIN, A.I., starshiy nauchnyy sotrudnik; GORBUNOVA, R.L., starshiy nauchnyy sotrudnik; ANTONOV, A.I.

Our experience in the use of a brace of the Milwaukee type.  
Ortop., travm. i protez. 26 no.4:73-75 Ap '65.

(MIRA 18:12)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov). 2. Vedushchiy konstruktor Tsentral'nogo instituta travmatologii i ortopedii (for Antonov). Adres avtorov: Moskva A-299, ul. Priorova, dom 10, Tsentral'nyy institut travmatologii i ortopedii.

OVCHAROVA, T.P.; GORBUNOVA, R.Ye.

Using sorbic acid in the food industry. Kons. i ov. prom. 13  
no.11:13-14 N '58. (MIRA 11:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut konservnoy i  
ovoshchesushil'noy promyshlennosti.  
(Food--Preservation) (Sorbic acid)

S/079/60/030/006/026/033/XX  
B001/B055

AUTHORS: Stotskiy, A. A. and Gorbunova, S. L.  
TITLE: A New Synthesis of Crotyl Amine  
PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 6,  
pp. 1985 - 1986

TEXT: Crotyl amine was prepared by reducing croton-aldoxime with sodium amalgam (Ref.1), lithium aluminum hydride (Ref.2), by splitting the hydrogen halide from the corresponding halogenated butyl amines (Refs. 4-6) and by the Gabriel method (Refs. 3,7,8). Particular mention must be made of the synthesis of pure cis- and trans-crotyl amine (Ref.9). In the present publication, the authors describe a simple method of synthesizing pure crotyl amine similar to the preparation of allyl amine described in Refs. 11 and 12. The salt obtained by reacting crotyl bromide with hexamethylene-tetramine was hydrolyzed in an alcoholic medium using hydrochloric acid. Crotyl-amine hydrochloride was converted to the free amine. In a methylene chloride solution, the salt

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A New Synthesis of Crotyl Amine

S/079/60/030/006/026/033/XX  
B001/B055

was obtained in 90% yield; in chloroform, however, only in 30% yield, probably due to the higher solubility of hexamethylene-tetramine in chloroform than in methylene chloride. The reaction in chloroform is more vigorous and probably accompanied by side reactions. There are 12 non-Soviet references.

ASSOCIATION: Leningradskiy tekhnologicheskii institut imeni Lensoveta  
(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: May 25, 1959

✓

Card 2/2

Cortunova, S.P.

Grad Agricult Sci

Dissertation: "Study of the Agrobiological Features of Sow Thistle in Connection  
with the Development of Preventive Measures."

23 June 49

All-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Soil Science  
(Insti K.K. Gedroyets)

SO Vecheryaya Moskva  
Sum 71

KOVTANYUK, M.S.; GORBUNOVA, S.P.

Using herbicides mixed with mineral fertilizers. Zemledelie 6  
no.5:66 My '58. (MIRA 11:6)  
(Corn (Maize)) (2,4-D) (Fertilizers and manures)

GORBUNOVA, S.P., kand.sel'skokhozyaystvennykh nauk

Using airplanes for the application of simazine and atrazine for  
weed control in corn planting. Zemledelie 24 no.2:58-62 F '62.  
(MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i  
agropochvovedeniya.  
(Aeronautics in agriculture) (Herbicides) (Corn(Maize))



FOR BUNOVIA, ITI.

Chemical Abstracts  
Vol. 48 No. 4  
Feb. 25, 1954  
Electrochemistry

The antimony electrode for measurement of pH. *I. H. Gubinovich and I. A. Gorbunova, Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk 4(7), 163-70 (1952).* The potential and temp. coeff. of the Sb electrode were studied in the intervals pH 2-12, temp. 20-50°. The effects of pH and of citric acid on the potential were studied. The Sb electrode was used with a 0.1N calomel electrode for these data. A compact pH meter with Sb and AgCl electrodes was proposed. The Sb electrode was surrounded by 3 toothbrushes attached to a motor which cleaned the Sb after each measurement. The e.m.f. was measured within ±1 mv., the temp. within ±0.01°. At pH 4 or below, the potential decreased 1.3 mv. for a temp. increase of 1°. At pH 7, or above this temp., the coeff. was -2.3 mv./degree. Between pH 4 and pH 7 the coeff. was between -1.3 and -2.3. At 25° (pH 2-12) the potential of the Sb electrode was a straight-line function of pH with the potential lowered 53.6 mv. for an increase of 1 pH unit. For a temp. below 20° or above 30° there was a break in the e.m.f.-pH curve at approx. pH 4. The slope of each part of the curve was the same, but at higher pH values the line was displaced toward higher potentials. It was assumed that this break was related to the variable temp. coeff. The presence of citric acid, which formed Sb complexes, displaced the e.m.f.-pH curve similarly. The pH could be calcd. within an error of ±0.2 pH by these equations. For pH 2-4,

$$pH = \frac{E - E_{\text{standard}} + 0.254 - 0.0013(t-25)}{0.0536}$$

for pH 5-12,

$$pH = \frac{E - E_{\text{standard}} + 0.254 - 0.0022(t-25)}{0.0536}$$

where  $E$  was the potential of the Sb-calomel cell,  $E_{\text{standard}}$  was the potential of the calomel electrode, and  $t$  was the temp. in °C. The Sb electrode could be used with acid Zn and Ni solns. contg.  $H_2BO_3$  if the reading was corrected according to a calibration curve of e.m.f.-pH for  $H_2BO_3$  solns. E. M.

Chem  
②

6/15/54  
AW

GORBUNOVA, T. I.

GORBUNOVA, T. I.

"Dependence of the Clinical Course of dysentery upon Concomitant Helminthiases and Methods of Effective Dehelminthization." First Moscow Order of Lenin Medical Inst, Moscow, 1955. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: M-972, 20 Feb 56

**"APPROVED FOR RELEASE: 06/13/2000**

**CIA-RDP86-00513R000516120005-1**

**APPROVED FOR RELEASE: 06/13/2000**

**CIA-RDP86-00513R000516120005-1"**

SINAYKO, G.A., kand. med. nauk; GORBUNOVA, T.I., kand. med. nauk

Clinical aspects and laboratory diagnosis of latent and anicteric forms of Botkin's disease in children. *Pediatria* 37 no.5:56-62 My '59.  
(MIRA 12:8)

1. Iz kliniki (zav. - prof. N.V. Sergeyev) Instituta virusologii imeni D. I. Ivanovskogo AMN SSSR (dir. - prof. P.N. Kosyakov) i na baze gorodskoy klinicheskoy bol'nitsy No.2 (glavnyy vrach A.M. Pyl'tsova).  
(HEPATITIS, INFECTIOUS, in inf. & child  
clin. aspects & laboratory diag. of latent & anicteric forms (Rus))

GORBUNOVA, T.I.

Cytological study of the liver during Botkin's disease by the  
method of intravital puncture. Vop.med.virus. no.9:297-304 '64.  
(MIRA 18:4)

1. Institut virusologii AMN SSSR, Moskva.

BEZPROZVANNYY, B.K.; GORBUNOVA, T.I.; KHORCSHO, M.N.; ANAN'YEV, V.A.

Morphological study of viruses<sup>a</sup> in epidemic hepatitis (Botkin's disease). Vop.med.virus. no.9.304-318 '64.

(MIRA 18:4)

SINAYKO, G.A.; PAKTORIS, Ye.A.; GORBUNOVA, T.I.

Late results of Botkin's disease following corticosteroid therapy.  
Sov. med. 28 no.8:106-111 Ag '65. (MIRA 18:9)

1. Klinicheskiy otdel (nauchnyy rukovoditel' - prof. A.F.Bilibin, zav. - dotsent Ye.S.Ketiladze) Instituta virusologii imeni Ivanovskogo (dir. - prof. V.M.Zhdanov) AMN SSSR na baze 82-y Moskovskoy gorodskoy klinicheskoy infektsionnoy bol'nitsy (glavnyy vrach - kand. med. nauk A.V.Yeremyan).

GORBUNOVA, T.M.; ZOTVIN, I.Y.

Mounting of a small reflecting telescope. 'Izb. teleskopistr.  
no.1899-109 '62 (MIRA 18:1)

GORBUNOVA, T.M.

Preparing large polished sections of iron meteorites. Meteoritika  
no.25:188-191 '64.  
(MIRA 17:9)

AKHMANOVA, Ol'ga Sergeyevna; ALEKSEYEV, I.A.; ARMAND, I.L.; GORBUNOVA,  
T.P.; YELISEYEVA, A.G.; KARSAYEVSKAYA, D.A.; YESIPOVA, V.Ya.,  
red.; SIROFINSKAYA, Ye.A., tekhn.red.

[Russian-English dictionary] Russko-angliiskii slovar'. Okolo  
25000 slov. Izd.13, ispr. i dop. Moskva, Gos.izd-vo inostr. i  
natsional'nykh slovarei, 1959. 492 p. (MIRA 13:6)  
(Russian language--Dictionaries--English)

SHUL'MAN, B.A.; SHATROV, I.I.; BRONSHTEYN, N.I.; LISINA, S.P.; MORZOVA,  
Ye.S.; GORBUNOVA, T.S.

Immunological reactions following typhus fever. Zhur.mikrobiol.  
epid.i immun. no.5:63-68 My '55. (MLRA 8:7)

1. Iz Moskovskogo gorodskogo instituta epidemiologii i bakterio-  
logii (rukovoditel' -prof. M.M.Mayevskiy).  
(TYPHUS, immunology,  
immun. reactions after)

STUDENTSOV, N.N.; BUTSISHKO, Ye.M.; GOBUNOVA, V., redaktor; LUKASJEVICH, V.,  
tehnicheskij redaktor

[General science instruction in the school; the practice of teachers]  
Politehnicheskoe obuchenie v shkole; iz opyta raboty uchitelei.  
[Saratov] Saratov] Saratovskoe kn-vo, 1955. 134 p. (MIRA 9:12)  
(Science--Study and teaching)

NESHUMOV, B.V., kand.iskusstvoved.nauk; KOSHELEV, A.Ye., arkhitektor;  
ASTROVA, T.Ye., arkhitektor; SHIKHEYEV, V.N., arkhitektor;  
VOSHCHANOVA, G.K., arkhitektor; GORBUNOVA, V.A., arkhitektor;  
KOVAL'KOV, V.G., arkhitektor; MARKHEYEV, Yu.S., arkhitektor;  
YAVOROVSKAYA, M.E., arkhitektor; OGRYZKO, P.V., arkhitektor;  
TIKHONOVA, N.V., arkhitektor; MANANNIKOVA, L.V., arkhitektor;  
GRADOV, G.A., red.; PAVLENKO, M.V., red.

[Furniture and equipment for public buildings; catalog based on materials from the Exhibition of Furniture and Equipment for Public Buildings, 1959-1960] Mebel' i oborudovanie dlia obshchestvennykh zdani; katalog sostavlenn po materialam vystavki mebeli i oborudovaniia dlia obshchestvennykh zdani, 1959-1960 gg. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 186 plates. (MIRA 14:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut obshchestvennykh zdaniy i sooruzheniy. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Gradov).  
(Furniture--Catalogs) (Public buildings--Equipment and supplies)

L 5144-66 EWT(1)/EWT(m)/EPF(c)/EWP(j)/ETC(m) RPL WW/JW/RM  
 ACCESSION NR: AP5021104 UR/0056/65/049/002/0433/0437  
 AUTHORS: Chashkin, Yu. R.; Gorbunova, V. G.; Voronel', A. V.

TITLE: Influence of impurities on the singularity of the thermodynamic potential at the liquid-vapor critical point

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965, 433-437

TOPIC TAGS: air, nitrogen, specific heat, Curie point, critical point, thermodynamic characteristic, vaporization

ABSTRACT: The specific heat of air and nitrogen containing 1.2 per cent impurities were measured near the critical point and the results compared with those obtained earlier for pure substances (ZhETF v. 43, 728, 1962 and v. 45, 828, 1963). The measurement method was described elsewhere (PTE no. 6, 111, 1960). Plots of the specific heat against the temperature and against the relative temperature difference are presented and a table of the specific heat of air for different temperatures is given. The results show that the lower the

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impurity content in a substance, the closer the rise of the specific heat is to the logarithmic rise observed in a pure substance. The impurities cause the logarithmic singularity of the specific heat  $C_v$  near the critical point to become deformed, with the deformed  $C_v(T)$  curve resembling the  $C_p(T)$  for solids near the Curie point. It is suggested that the formula obtained earlier for  $C_v$  (ZhETF v. 46, 673, 1964) be modified to include a term proportional to the total number of the impurities. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy (Institute of Physicotechnical and Radiotechnical Measurements) 44.5

SUBMITTED: 10Mar65

ENCL: 00

SUB CODE: TD

NR REF SOV: 009

OTHER: 002

Card 2/2 *MD*

I 28074-66 EWT(m)/ETC(m)-6 RM/WW/JW

ACC NR: AP6014028

SOURCE CODE: UR/0056/66/050/004/0897/0904

AUTHOR: Voronel', A. V.; Gorbunova, V. G.; Chashkin, Yu. R.;  
Shchekochikhina, V. V.

58  
56  
B

ORG: All-Union Institute of Physicotechnical and Radiotechnical  
Measurements (Vsesoyuznyy Institut fiziko-tekhnicheskikh i radio-  
tekhnicheskikh izmereniy)

TITLE: Specific heat of nitrogen near the critical point

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50,  
no. 4, 1966, 897-904

TOPIC TAGS: nitrogen, specific heat, critical point, temperature  
dependence, thermogram

ABSTRACT: In connection with the discussion concerning the analytic  
form of the specific heat singularity near the critical point  
(M. E. Fisher, Phys. Rev., 136, A1599, 1964; M. E. Fisher, J. of  
Mathem. Phys., 5, 944, 1964), certain measurement results of the  
specific heat of nitrogen near the critical point are presented for  
an extended temperature range within 0.01C of  $T_c$ . The experimental  
errors are less than 5%. The data obtained indicate a logarithmic

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ACC NR: AP6014028

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dependence of the specific heat on temperature for  $T \rightarrow T_c$  and  $T < T_c$ ; the slopes of curves are the same from the left and right, that is, for  $T > T_c$  and  $T < T_c$ , and the finite change  $\Delta C_v = \lim (C_v^+ - C_v^-)$  for  $|T - T_c| \rightarrow 0$  remains the same, in agreement with an earlier work M. Ya. Azbel, A. V. Voronel', M. Sh. Giterman, ZhETF, 46, 673, 1963). Since the value of the  $T_c$  is important for interpreting the results, its value has been determined with an accuracy of 0.001C by a method similar to the thermographic one. In this connection it has been found that by using the results of a previous paper (Yu. R. Chashkin, V. G. Gorbunova, A. V. Voronel', ZhETF, 49, 433, 1965), the total amount of impurities in the gas can be determined with greater reliability accurate to 0.02%. The authors thank V. Vaks and A. Larkin for discussing certain problems. Orig. art. has: 6 figures, 2 formulas, and 1 table. [Based on authors' abstract] [NT]

SUB CODE: 20 / SUBM DATE: 03Nov65/ ORIG REF: 009/  
OTH REF: 010

Card

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000001 00000000 00000000 1 00000000 0000 00 0000 00

BEGIDZHANOVA, A.P.; KREYNDLIN, L.M.; GORBUNOVA, V.G.; BARSHEYN, R.S.

Substituting plastic materials for copper in making low pressure fuel pipes. Trakt. i sel'khoz mash. 33 no.2:43-44 F '63. (MIRA 16:3)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny institut (for Begidzhanova, Kreyndlin). 2. Nauchno-issledovatel'skiy institut plastmas (for Gorbunova, Barshteyn).  
(Tractors fuel systems) (Pipe, Plastic)

GORBUNOVA, V.G. (Leningrad)

Anatomical basis of the technique of alcoholization of the branches of the trigeminal nerve. Vop. neirokhir. 26 no.6: 10-14 N-D'62 (MIRA 17:3)

1. Laboratoriya operativnoy neyrokhirurgii nauchno-issledovatel'skogo neyrokhirurgicheskogo instituta imeni prof. A.L. Polenova, Leningrad, i kafedra operativnoy khirurgii i topograficheskoy anatomii Leningradskogo pediatricheskogo meditsinskogo instituta.

ORLOV, V.N.; ORLOV, O. Y.; PANOV, Ye.N.; CHAYKOVSKIY, Yu.V.; YABLOKOV, A.V.;  
GONCHARENKO, Ye.N.; CORBUHOVA, V.G.; KONOPLYANNIKOV, A.K.;  
KUDRYASHOV, Yu.B.; REUK, V.D.; SHUENIKOVA, Ye.A.; TARUSOV, B.N.;  
PETRUSEVICH, Yu.M.; IVANOV, I.I.; GAPONENKO, V.I.; ANTONOV, V.A.;  
VOROB'YEV, L.N.; BURLAKOVA, Ye.V.; BURDIN, K.S.; PARKHOMENKO, I.M.;  
AGAVERDIYEV, A. Sh.; DOSKACH, Ya. Ye.; TARUSOV, B.N.

Brief news. Biol. MOIP. Otd. biol. 70 no.6:158-171 N-D '65.  
(MIRA 19:1)

Gorbunova, V. I.

USSR .

✓ Development of vitamin D hypervitaminosis depending on the dietary vitamin C content V. I. Gorbunova and S. G. Gerasimov. *Sov. Research Inst. Vitaminol. Institute of Health U.S.S.R., Moscow. Voprosy Zdravook. 1955.*

Three groups of guinea pigs were fed a normal diet supplemented with 15 IU vitamin D<sub>2</sub> per group (I), 15 IU of 1,25-dihydroxyvitamin D<sub>2</sub> (II), and 15 IU of 1,25-dihydroxyvitamin D<sub>2</sub> (III). The animals in group II were retarded in growth and developed hypervitaminosis D. The animals in group III were retarded in growth and developed hypervitaminosis D. The animals in group I were not retarded in growth and did not develop hypervitaminosis D.

The authors conclude that the development of hypervitaminosis D is dependent on the dietary vitamin C content.

**"APPROVED FOR RELEASE: 06/13/2000**

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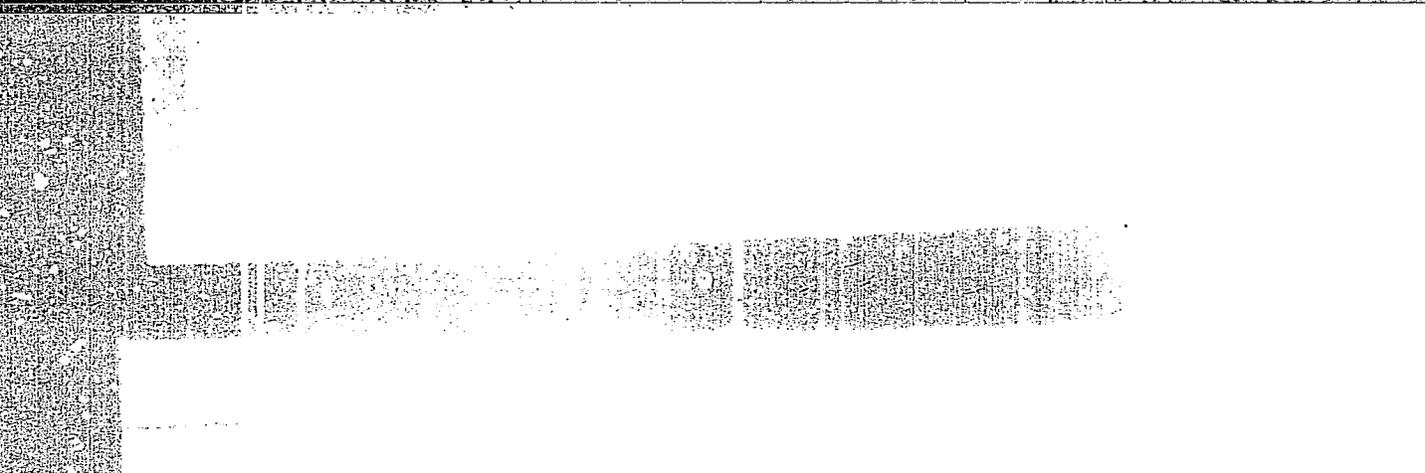
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ANISOVA, A.A., ZHMEYDO, A.T., GORBUNOVA, V.I. SPIRINA, V.P.

Vitamin C indexes in preschool children. *Pediatrics* 36 no.6:56-59  
(MIRA 11:6)  
Je '58

1. Iz otdela fiziologii Instituta pediatrii Ministerstva zdravookhraneniya RSFSR (zav. - doktor med.nauk N.Ye. Ozeretkovskaya) i A.D.E. vitaminnogo otdela (zav. - prof. S.N. Matsko) Instituta vitaminologii Ministerstva zdravookhraneniya SSSR.

(VITAMIN C, metab.

utilization, eff. of decreased allotment in preschool child. (Rus))

(CHILD

eff. of decreased vitamin C allotment on preschool age child. (Rus))

GORBUNOVA, V.I.

Hemoglobin and phagocytosis as indicators of the vitamin C condition  
of the organism. Biol. MOIP. Otd. biol. 65 no.1:143-146 Ja-F '60.  
(MIRA 13:7)

(HEMOGLOBIN)

(PHAGOCYTOSIS)

(ASCORBIC ACID)

MATZKO, S.N.; GORBUNOVA, V.I.; ANISOVA, A.A.; JMEIDO, A.T.; GALKINA, A.F.

Criteria of vitamin C supply of the body. (Results of observations carried out on animals). J. hyg. epidem. 6 no.4:399-406 '62.

1. L'Institut de Vitaminologie du Ministere de la Sante de l'URSS,  
Moscou.

(ASCORBIC ACID)

MATSKO, S.N.; ~~GORBUNOVA, V.I.~~; ANISOVA, A.A.; ZHMEYDO, A.T.

Criteria for vitamin C requirements; observations on children.  
Vop. pit. 21 no.6:52-56 N-D '62. (MIRA 17:5)

1. Iz Nauchno-issledovatel'skogo instituta vitaminologii Ministerstva  
zdravookhraneniya SSSR, Moskva.

L 22287-66 EWP(j)/EWT(m)/EWP(t) IJP(o) RM/JD  
ACCESSION NR: AP6006492

SOURCE CODE: UR/0138/65/000/010/0026/0027

AUTHOR: Frenkel', R. Sh.; Kuz'minskiy, A. S.; Morozov, G. M.; Gorbunova, V. I. <sup>37</sup>

ORG: Volga Branch, Scientific-Research Institute of the Tire Industry (Volzhskiy filial nauchno-issledovatel'skogo instituta shinnoy promyshlennosti)

TITLE: Investigation of the effect of zinc oxide on the decomposition of the polysulfide bonds of vulcanizates

SOURCE: Kauchuk i rezina, no. 10, 1965, 26-27

TOPIC TAGS: zinc oxide, vulcanization, rubber, sulfide, chemical decomposition

ABSTRACT: The present authors showed earlier (Kauchuk i rezina, no. 10, 32 (1962); Vysokomolekulyarnyye soyed., 5, no. 6, 834 (1963)) that zinc oxide promotes the free-radical decomposition of disulfide vulcanization catalysts. This led to the assumption that zinc oxide will affect the free-radical di- and polysulfide bonds of vulcanizates in a similar manner. For the investigation of the effect of zinc oxide on the decomposition of the polysulfide bonds of a vulcanizate, the authors used the following compositions of a rubber mixture: (parts by wt.) SKN-26, 100.0, DFG, 1.0; sulfur, 5.0; furthermore, the following were added: ZnO (mixture 1), CaO (mixture 2), and BeO (mixture 3), 5.0. It is concluded that zinc oxide  
Card 1/2 UDC: 678.028:541.12

I. 22287-66

ACCESSION NR: AP6006492

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promotes the decomposition of sulfur-containing horizontal bonds of vulcanizate SKN-26, which leads in the process of vulcanization to an increase in the concentration of the horizontal bonds and to a reduction in the degree of sulfidity. Orig. art. has: 1 figure and 1 table.

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 003

Card 2/2    nst

ABEZGAUZ, N.N.; ANISOVA, A.A.; GORBUNOVA, V.I.; ZHMEYDO, A.T.; LEONTOVICH, V.A.

Effect of C-vitaminization of donors on the preservation of the phagocytic reaction and the vitamin C level in leucocytes stored under refrigeration. Probl. gemat. i perel. krovi 10 no.1:45-47 (MIRA 19:1)  
Ja '65.

1. Laboratoriya konservirovaniya krovi (zav. - prof. F.R. Vinograd-Finkel') Tsentral'nogo instituta gematologii i perelivaniya krovi Ministerstva zdravookhraneniya SSSR i vitaminnaya laboratoriya (zav. - prof. S.N. Matsko) Instituta vitaminologii, Moskva.

S/138/62/000/010/004/008  
A051/A126

AUTHORS: Frenkel', R.Sh., Kuz'minskiy, A.S., Morozova, G.M., Gorbunova, V.I.

TITLE: Investigation of the effect of zinc compounds on rubber vulcanization

PERIODICAL: Kauchuk i rezina, no. 10, 1962, 32 - 36

TEXT: An investigation was conducted to determine the action mechanism of zinc oxide and the possibility of producing more effective vulcanization activators. One of the functions of zinc oxide as an activator of vulcanization is its catalytic effect on the decomposition of polysulfide bonds of the vulcanizate. Zinc hydroxide is recommended as a new vulcanization activator, the former reducing the time needed to achieve optimum vulcanization by 2 to 3 times. This new activator also reduces the tendency to scorching; the physico-mechanical properties of the mix are not significantly changed. Best results are obtained with zinc hydroxide combined with ammonium benzoate. Zinc carbonate, as a vulcanization activator, was found to increase the thermal aging resistance of the vulcanizates. The tendency to scorching, as well as the physico-mechanical

Card 1/2